

# MSc. In Computing (Enterprise Software Systems)

Module: Enterprise Web Development

Assignment 1 – React SPA  
(Client-side)

Due date: 13/03/2019

# Assignment 1

- Develop a SPA, using React, for a context of your choice:
  - Productivity, Social networking, E-Commerce, etc
  - Alternative: Extend one of lab apps (Lower weighting)
- Prototype standard.
- Constraint: Must use create-react-app and Storybook
- CA percentage: 60%
- No robust persistence/server-side necessary
- Deliverables:
  - GitHub repository, including README (details later).

# Grading spectrum

- **Good (40-50%) – Theme: Foundation-standard app.**
  - **Qualities:**
    1. **UI - Web form; Dynamic behavior; Some storybook support**
    2. **Routing - 2 routes.**
    3. **Data model: Stub API; 1+ entity.**
  - **Alternative: Adapt one lab app to a different context, plus new features/view.**
- **V. Good (50-65) – Theme: Complete React demo app.**
  - **Qualities:**
    1. **UI design – Inverse data flow; Some Lifecycle requirements; Prop data validation; Reasonable Storybook catalogue.**
    2. **Routing - 3+ routes; Parameterized URLs**
    3. **Data Model – 2+ entities; JSON server (Read only) + Stub API (CRUD support).**

# Grading spectrum

- **Excellent (65-85) – Theme: Coherent, complete, robust App.**
  - **Qualities:**
    - **UI – Authentication support; Public/Private views; ; Good styling; Efficient re-rendering policies.**
    - **Routing - Header/Footer navigation; Extensive data Hyperlinking.**
    - **Data Model: 3+ entities; JSON server (CRUD support).**
  - **App is YOUR idea. Not based on labs (OR found on GitHub)**
  - **Views and data model should be coherent.**
- **Outstanding (85-100) – Theme: Independent learning.**
  - **3rd party authentication (e.g. Firebase), Advanced React (e.g. Context API), Storybook addons, 3<sup>rd</sup> party Web API; 3<sup>rd</sup> party components. Deployed (e.g. Surge), Other.**

